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Nota di contenuto	Plenary Lectures -- Detecting Sharp Drops in PageRank and a Simplified Local Partitioning Algorithm -- Generalizations of the Compactness Theorem and Gödel's Completeness Theorem for Nonstandard Finite Structures -- Contributed Papers -- Approximation Algorithms for 3D Orthogonal Knapsack -- A Comparative Study of Efficient Algorithms for Partitioning a Sequence into Monotone Subsequences -- The Hardness of Selective Network Design for Bottleneck Routing Games -- A Polynomial Time Algorithm for Finding Linear Interval Graph Patterns -- Elementary Differences Among Jump Hierarchies -- Working with the LR Degrees -- Computability on Subsets of Locally Compact Spaces -- A New Approach to Graph Recognition and Applications to Distance-

Hereditary Graphs -- Finding a Duplicate and a Missing Item in a Stream -- Directed Searching Digraphs: Monotonicity and Complexity -- Protecting Against Key Escrow and Key Exposure in Identity-Based Cryptosystem -- Encapsulated Scalar Multiplications and Line Functions in the Computation of Tate Pairing -- A Provably Secure Blind Signature Scheme -- Construct Public Key Encryption Scheme Using Ergodic Matrices over GF(2) -- New Left-to-Right Radix-r Signed-Digit Recoding Algorithm for Pairing-Based Cryptosystems -- The Strongest Nonsplitting Theorem -- There is an Sw-Cuppable Strongly c.e. Real -- On Computation Complexity of the Concurrently Enabled Transition Set Problem -- Synchronization of Some DFA -- On the Treewidth and Pathwidth of Biconvex Bipartite Graphs -- On Exact Complexity of Subgraph Homeomorphism -- Searching a Polygonal Region by Two Guards -- On the Internal Steiner Tree Problem -- Approximately Optimal Trees for Group Key Management with Batch Updates -- On Deciding Deep Holes of Reed-Solomon Codes -- Quantum Multiparty Communication Complexity and Circuit Lower Bounds -- Efficient Computation of Algebraic Immunity of Symmetric Boolean Functions -- Improving the Average Delay of Sorting -- Approximating Capacitated Tree-Routings in Networks -- Feedback Arc Set Problem in Bipartite Tournaments -- Studying on Economic-Inspired Mechanisms for Routing and Forwarding in Wireless Ad Hoc Network -- Enhancing Simulation for Checking Language Containment -- QBF-Based Symbolic Model Checking for Knowledge and Time -- A Characterization of the Language Classes Learnable with Correction Queries -- Learnable Algorithm on the Continuum -- Online Deadline Scheduling with Bounded Energy Efficiency -- Efficient Algorithms for Airline Problem -- Efficient Exact Arithmetic over Constructive Reals -- Bounding Run-Times of Local Adiabatic Algorithms -- A Note on Universal Composable Zero Knowledge in Common Reference String Model -- A Note on the Feasibility of Generalized Universal Composability -- t-Private and Secure Auctions -- Secure Multiparty Computations Using a Dial Lock -- A Time Hierarchy Theorem for Nondeterministic Cellular Automata -- Decidability of Propositional Projection Temporal Logic with Infinite Models -- Separation of Data Via Concurrently Determined Discriminant Functions -- The Undecidability of the Generalized Collatz Problem -- Combinatorial and Spectral Aspects of Nearest Neighbor Graphs in Doubling Dimensional and Nearly-Euclidean Spaces -- Maximum Edge-Disjoint Paths Problem in Planar Graphs -- An Efficient Algorithm for Generating Colored Outerplanar Graphs -- Orthogonal Drawings for Plane Graphs with Specified Face Areas -- Absolutely Non-effective Predicates and Functions in Computable Analysis -- Linear-Size Log-Depth Negation-Limited Inverter for k-Tonic Binary Sequences -- The Existence of Unsatisfiable Formulas in k-LCNF for k???3 -- Improved Exponential Time Lower Bound of Knapsack Problem Under BT Model -- Phase Transition of Multivariate Polynomial Systems -- Approximation Algorithms for Maximum Edge Coloring Problem -- Two Improved Range-Efficient Algorithms for F 0 Estimation -- Approximation to the Minimum Rooted Star Cover Problem -- Approximability and Parameterized Complexity of Consecutive Ones Submatrix Problems -- Parameterized Algorithms for Weighted Matching and Packing Problems -- Kernelizations for Parameterized Counting Problems -- Revisiting the Impossibility for Boosting Service Resilience -- An Approximation Algorithm to the k-Steiner Forest Problem -- A Distributed Algorithm of Fault Recovery for Stateful Failover -- Path Embedding on Folded Hypercubes -- An Approximation Algorithm Based on Chain Implication for Constrained Minimum Vertex Covers in Bipartite Graphs.